



results of BLAST

BLASTP 2.2.5 [Nov-16-2002]

Reference:

Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schäffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

RID: 1045161355-05206-4482

Query=

(30 letters)

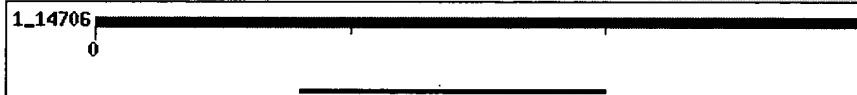
Database: All non-redundant GenBank CDS translations+PDB+SwissProt+PIR+PRF
1,336,920 sequences; 428,153,035 total letters

If you have any problems or questions with the results of this search please refer to the [BLAST FAQs](#)

[Taxonomy reports](#)

Distribution of 1 Blast Hits on the Query Sequence

Mouse-over to show defline and scores. Click to show alignments



Sequences producing significant alignments:

Score E
(bits) Value

gi|4378804|gb|AAD19696.1| hemoglobin beta chain [Homo sapiens] 31 4.2

Alignments

[Get selected sequences](#)

[Select all](#)

[Deselect all](#)

>gi|4378804|gb|AAD19696.1| hemoglobin beta chain [Homo sapiens]
Length = 147

Score = 31.2 bits (69), Expect = 4.2
Identities = 12/13 (92%), Positives = 12/13 (92%)

Query: 9 RFLVVYPWTQRFL 21

R LVVYPWTQRFL

Sbjct: 31 RLLVVYPWTQRFL 43 -Hb β

Database: All non-redundant GenBank CDS
translations+PDB+SwissProt+PIR+PRF

Posted date: Feb 12, 2003 12:52 AM

Number of letters in database: 428,153,035

Number of sequences in database: 1,336,920

Lambda K H
0.336 0.147 0.586

Gapped

Lambda K H
0.267 0.0410 0.140

Matrix: BLOSUM62

Gap Penalties: Existence: 11, Extension: 1

Number of Hits to DB: 24,540,963

Number of Sequences: 1336920

Number of extensions: 393866

Number of successful extensions: 3075

Number of sequences better than 10.0: 1

Number of HSP's better than 10.0 without gapping: 1

Number of HSP's successfully gapped in prelim test: 0

Number of HSP's that attempted gapping in prelim test: 3072

Number of HSP's gapped (non-prelim): 3

length of query: 30

length of database: 428,153,035

effective HSP length: 6

effective length of query: 24

effective length of database: 420,131,515

effective search space: 10083156360

effective search space used: 10083156360

T: 11

A: 40

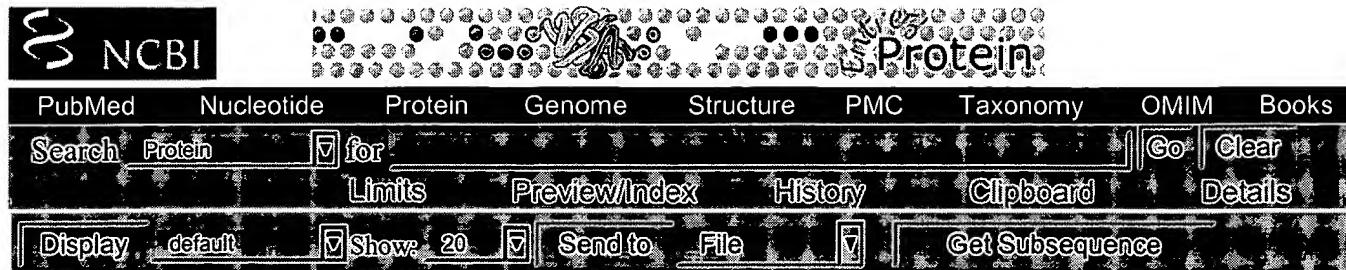
X1: 15 (7.3 bits)

X2: 38 (14.6 bits)

X3: 64 (24.7 bits)

S1: 39 (21.7 bits)

S2: 66 (30.0 bits)



NCBI Protein

PubMed Nucleotide Protein Genome Structure PMC Taxonomy OMIM Books

Search Protein for

Limits Preview/Index History Clipboard Details

Display default Show: 20 Send to File

□ 1: AAD19696. hemoglobin beta c...[gi:4378804]

BLINK, Domains, Links

LOCUS AAD19696 147 aa linear PRI 09-MAR-1999
 DEFINITION hemoglobin beta chain [Homo sapiens].
 ACCESSION AAD19696
 VERSION AAD19696.1 GI:4378804
 DBSOURCE locus AF117710 accession AF117710.1
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 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (residues 1 to 147)
 AUTHORS Kutlar,F., Harbin,J., Brisco,J. and Kutlar,A.
 TITLE Rapid detection of electrophoretically silent, unstable human
 hemoglobin 'Louisville', (Beta; Phe 42 Leu/TTT to CTT) by cDNA
 sequencing of mRNA
 JOURNAL Unpublished
 REFERENCE 2 (residues 1 to 147)
 AUTHORS Kutlar,F., Harbin,J., Brisco,J. and Kutlar,A.
 TITLE Direct Submission
 JOURNAL Submitted (04-JAN-1999) Medicine, Medical College of Georgia, Laney
 Walker, AC-1000, Hemoglobin Lab., Augusta, GA 30912, USA
 COMMENT Method: conceptual translation.
 FEATURES Location/Qualifiers
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 /db_xref="taxon:9606"
 /chromosome="11"
 /map="11p15.5"
 /cell_type="reticulocyte"
 /tissue_type="whole blood"
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 /name="unstable hemoglobin; hemoglobin 'Louisville'"
 CDS 1..147
 /gene="HBB"
 /coded_by="AF117710.1:31..474"
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 61 vkahgkkvlg afsdglahld nlkgtfatls elhcdklhvd penfrllgnv lvcvlahhfg
 121 keftppvqaa yqkvvagvan alahkyh
 //

Revised: August 5, 2002.

NCBI Protein

PubMed Nucleotide Protein Genome Structure PMC Taxonomy OMIM Books

Search Protein for

Limits Preview/Index History Clipboard Details

Display default Show: 20 Send to File Get Subsequence

1: AAD19696. hemoglobin beta c...[gi:4378804]

BLINK, Domains, Links

LOCUS AAD19696 147 aa linear PRI 09-MAR-1999
 DEFINITION hemoglobin beta chain [Homo sapiens].
 ACCESSION AAD19696
 VERSION AAD19696.1 GI:4378804
 DBSOURCE locus AF117710 accession AF117710.1
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (residues 1 to 147)
 AUTHORS Kutlar,F., Harbin,J., Brisco,J. and Kutlar,A.
 TITLE Rapid detection of electrophoretically silent, unstable human
 hemoglobin 'Louisville', (Beta; Phe 42 Leu/TTT to CTT) by cDNA
 sequencing of mRNA
 JOURNAL Unpublished
 REFERENCE 2 (residues 1 to 147)
 AUTHORS Kutlar,F., Harbin,J., Brisco,J. and Kutlar,A.
 TITLE Direct Submission
 JOURNAL Submitted (04-JAN-1999) Medicine, Medical College of Georgia, Laney
 Walker, AC-1000, Hemoglobin Lab., Augusta, GA 30912, USA
 COMMENT Method: conceptual translation.
 FEATURES Location/Qualifiers
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 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /chromosome="11"
 /map="11p15.5"
 /cell_type="reticulocyte"
 /tissue_type="whole blood"
 /note="unstable hemoglobin had been separated from normal
 beta chain, by the reversed phase HPLC on a C4 column and
 eluted between the beta chain and alpha chain on the
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 /name="unstable hemoglobin; hemoglobin 'Louisville'"
 CDS 1..147
 /gene="HBB"
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 61 vkahgkkvlg afsdglahld nlkgtfatls elhcdklhvd penfrllgnv lvcvlahhfg
 121 keftppvqaa yqkvvagvan alahkyh
 //

Revised: August 5, 2002.

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NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
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NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27 Oct 21 EVENTLINE has been reloaded
NEWS 28 Oct 24 BEILSTEIN adds new search fields
NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT
NEWS 32 Nov 25 More calculated properties added to REGISTRY
NEWS 33 Dec 02 TIBKAT will be removed from STN
NEWS 34 Dec 04 CSA files on STN
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 36 Dec 17 TOXCENTER enhanced with additional content
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 38 Dec 30 ISMEC no longer available
NEWS 39 Jan 13 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 40 Jan 21 NUTRACEUT offering one free connect hour in February 2003
NEWS 41 Jan 21 PHARMAML offering one free connect hour in February 2003
NEWS 42 Jan 29 Simultaneous left and right truncation added to COMPENDEX,
ENERGY, INSPEC

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP).

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NEWS LOGIN General Internet Information
NEWS PHONE Welcome Banner and News Items
NEWS WWW Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

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=> S LVVYPWTQRF
L1 6 LVVYPWTQRF

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=> DUP REM
ENTER L# LIST OR (END) :L1
PROCESSING COMPLETED FOR L1
L2          3 DUP REM L1 (3 DUPLICATES REMOVED)
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=> B 1

L2 ANSWER 1 OF 3 MEDLINE DUPLICATE 1
AN 1999026724 MEDLINE
DN 99026724 PubMed ID: 9809196
TI Haemorphin peptides may be endogenous ligands for brain angiotensin AT4 receptors.
AU Moeller I; Chai S Y; Smith I; Lew R; Mendelsohn F A
CS Howard Florey Institute of Experimental Physiology and Medicine,
University of Melbourne, Parkville, Victoria, Australia..
i.moeller@hfi.unimelb.edu.au
SO CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY. SUPPLEMENT, (1998
Nov) 25 S68-71. Ref: 45
Journal code: 7611484. ISSN: 0143-9294.
CY Australia
DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LA English

FS Priority Journals
EM 199901
ED Entered STN: 19990209
Last Updated on STN: 19990209
Entered Medline: 19990128

=> D 2

L2 ANSWER 2 OF 3 MEDLINE DUPLICATE 2
AN 97407788 MEDLINE
DN 97407788 PubMed ID: 9264537
TI Peroxynitrite-mediated nitration of peptides: characterization of the products by electrospray and combined gas chromatography-mass spectrometry.
AU Yi D; Smythe G A; Blount B C; Duncan M W
CS Biomedical Mass Spectrometry Unit, University of New South Wales, Sydney, Australia.
SO ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, (1997 Aug 15) 344 (2) 253-9.
Journal code: 0372430. ISSN: 0003-9861.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals; AIDS
EM 199709
ED Entered STN: 19970922
Last Updated on STN: 19970922
Entered Medline: 19970908

=> D 3

L2 ANSWER 3 OF 3 MEDLINE DUPLICATE 3
AN 94311913 MEDLINE
DN 94311913 PubMed ID: 8037741
TI Isolation of endogenous hemorphin-related hemoglobin fragments from bovine brain.
AU Karelina A A; Philippova M M; Karelina E V; Ivanov V T
CS Shemyakin and Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, Moscow.
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1994 Jul 15) 202 (1) 410-5.
Journal code: 0372516. ISSN: 0006-291X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199408
ED Entered STN: 19940825
Last Updated on STN: 19940825
Entered Medline: 19940815

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FULL ESTIMATED COST	7.82	8.03

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=> S LEU AND VAL AND VAL AND TYR AND PRO AND TRP AND THR AND GLN AND ARG AND PHE
L3 187 LEU AND VAL AND VAL AND TYR AND PRO AND TRP AND THR AND GLN AND
ARG AND PHE

=> DUP REM L3
PROCESSING COMPLETED FOR L3
L4 112 DUP REM L3 (75 DUPLICATES REMOVED)

=> S LEU VAL VAL TYR PRO TRP THR GLN ARG PHE
L5 9 LEU VAL VAL TYR PRO TRP THR GLN ARG PHE

=> DUP REM L5
PROCESSING COMPLETED FOR L5
L6 4 DUP REM L5 (5 DUPLICATES REMOVED)

=> D 1

L6 ANSWER 1 OF 4 MEDLINE DUPLICATE 1
AN 2000171746 MEDLINE
DN 20171746 PubMed ID: 10704729
TI Isolation of the opioid peptide Leu-Val-Val-hemorphin-7 from
bronchoalveolar lavage fluid of a patient with non-small cell lung cancer.
AU Duethman D; Dewan N; Conlon J M
CS Regulatory Peptide Center, Department of Biomedical Sciences, Creighton
University Medical School, Omaha, Nebraska 68178, USA.
SO PEPTIDES, (2000 Jan) 21 (1) 137-42.
Journal code: 8008690. ISSN: 0196-9781.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200004
ED Entered STN: 20000505
Last Updated on STN: 20000505
Entered Medline: 20000424

=> D 2

L6 ANSWER 2 OF 4 MEDLINE DUPLICATE 2
AN 97309334 MEDLINE
DN 97309334 PubMed ID: 9166749
TI The globin fragment LVV-hemorphin-7 is an endogenous ligand for the AT4
receptor in the brain.
AU Moeller I; Lew R A; Mendelsohn F A; Smith A I; Brennan M E; Tetaz T J;
Chai S Y
CS Howard Florey Institute of Experimental Physiology and Medicine,
Parkville, Victoria, Australia.
SO JOURNAL OF NEUROCHEMISTRY, (1997 Jun) 68 (6) 2530-7.
Journal code: 2985190R. ISSN: 0022-3042.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199706
ED Entered STN: 19970630
Last Updated on STN: 19970630
Entered Medline: 19970617

=> D 3

L6 ANSWER 3 OF 4 MEDLINE DUPLICATE 3
AN 96198718 MEDLINE
DN 96198718 PubMed ID: 8636875
TI Analysis in gingival crevicular fluid of two oligopeptides derived from human hemoglobin beta-chain.
AU Makinen K K; Sewon L; Makinen P l
CS Department of Biologic and Materials Sciences, School of Dentistry, University of Michigan, Ann Arbor, USA.
NC 5 P60 AR20557 (NIAMS)
SO JOURNAL OF PERIODONTAL RESEARCH, (1996 Jan) 31 (1) 43-6.
Journal code: 0055107. ISSN: 0022-3484.
CY Denmark
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Dental Journals; Priority Journals
EM 199607
ED Entered STN: 19960719
Last Updated on STN: 19980206
Entered Medline: 19960710

=> D 4

L6 ANSWER 4 OF 4 MEDLINE DUPLICATE 4
AN 81063295 MEDLINE
DN 81063295 PubMed ID: 6776995
TI Isolation and structure of several peptides from porcine hypothalami.
AU Chang R C; Huang W Y; Redding T W; Arimura A; Coy D H; Schally A V
NC AM 07467 (NIADDK)
AM 09094 (NIADDK)
SO BIOCHIMICA ET BIOPHYSICA ACTA, (1980 Oct 21) 625 (2) 266-73.
Journal code: 0217513. ISSN: 0006-3002.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198102
ED Entered STN: 19900316
Last Updated on STN: 19970203
Entered Medline: 19810219

=> D 5

4 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
The answer numbers requested are not in the answer set.
ENTER ANSWER NUMBER OR RANGE (1):4

L6 ANSWER 4 OF 4 MEDLINE DUPLICATE 4
AN 81063295 MEDLINE
DN 81063295 PubMed ID: 6776995
TI Isolation and structure of several peptides from porcine hypothalami.
AU Chang R C; Huang W Y; Redding T W; Arimura A; Coy D H; Schally A V
NC AM 07467 (NIADDK)
AM 09094 (NIADDK)
SO BIOCHIMICA ET BIOPHYSICA ACTA, (1980 Oct 21) 625 (2) 266-73.
Journal code: 0217513. ISSN: 0006-3002.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198102
ED Entered STN: 19900316
Last Updated on STN: 19970203

Entered Medline: 19810219

=> LOGOFF HOLD
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
4.18	12.21

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 12:59:40 ON 13 FEB 2003

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PASSWORD :

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NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter (PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
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NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
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NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA
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NEWS 32 Nov 25 More calculated properties added to REGISTRY
NEWS 33 Dec 02 TIBKAT will be removed from STN
NEWS 34 Dec 04 CSA files on STN
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
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NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 38 Dec 30 ISMEC no longer available
NEWS 39 Jan 13 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 40 Jan 21 NUTRACEUT offering one free connect hour in February 2003
NEWS 41 Jan 21 PHARMAML offering one free connect hour in February 2003
NEWS 42 Jan 29 Simultaneous left and right truncation added to COMPENDEX,
ENERGY, INSPEC
NEWS 43 Feb 13 CANCERLIT is no longer being updated

NEWS EXPRESS | January 8 CURRENT WINDOWS VERSION IS 8.0.61a,

CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
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CAS World Wide Web Site (general information)

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COST IN U.S. DOLLARS
SINCE FILE ENTRY TOTAL
SESSION
FULL ESTIMATED COST 2.31 2.31

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FILE 'LIFESCI' ENTERED AT 14:41:29 ON 13 FEB 2003
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FILE 'BIOSIS' ENTERED AT 14:41:29 ON 13 FEB 2003
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=> S HEMORPHINS
1.1 81 HEMORPHINS

=> DUP REM L1
PROCESSING COMPLETED FOR L1
L2 45 DUP REM L1 (36 DUPLICATES REMOVED)

=> S L1 AND LVVYPWTQRF
L3 2 L1 AND LVVYPWTQRF

=> D 1

L3 ANSWER 1 OF 2 MEDLINE
AN 94311913 MEDLINE
DN 94311913 PubMed ID: 8037741
TI Isolation of endogenous hemorphin-related hemoglobin fragments from bovine brain.
AU Karelina A A; Philippova M M; Karelina E V; Ivanov V T
CS Shemyakin and Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, Moscow.
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1994 Jul 15) 202 (1) 410-5.
CY Journal code: 0372516. ISSN: 0006-291X.
DT United States
LA English
FS Article; (JOURNAL ARTICLE)
EM Priority Journals
EM 199408
ED Entered STN: 19940825

Last Updated on STN: 19940825
Entered Medline: 19940815

=> D 2

L3 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1994:394783 BIOSIS
DN PREV199497407783
TI Isolation of endogenous hemorphin-related hemoglobin fragments from bovine brain.
AU Karelina, Andrey A.; Philippova, Marina M.; Karelina, Elena V.; Ivanov, Vadim T.
CS Shemyakin and Ovchinnikov Inst. Bioorganic Chem., Russian Acad. Sci., Moscow Russia
SO Biochemical and Biophysical Research Communications, (1994) Vol. 202, No. 1, pp. 410-415.
ISSN: 0006-291X.
DT Article
LA English

=> s hemorphin and lvvypwtqrf
L4 5 HEMORPHIN AND LVVYPWTQRF

=> dup rem 14
PROCESSING COMPLETED FOR L4
L5 3 DUP REM L4 (2 DUPLICATES REMOVED)

=> d 1

L5 ANSWER 1 OF 3 MEDLINE DUPLICATE 1
AN 1999026724 MEDLINE
DN 99026724 PubMed ID: 9809196
TI Haemorphin peptides may be endogenous ligands for brain angiotensin AT4 receptors.
AU Moeller I; Chai S Y; Smith I; Lew R; Mendelsohn F A
CS Howard Florey Institute of Experimental Physiology and Medicine, University of Melbourne, Parkville, Victoria, Australia.. i.moeller@hfi.unimelb.edu.au
SO CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY. SUPPLEMENT, (1998 Nov) 25 S68-71. Ref: 45
Journal code: 7611484. ISSN: 0143-9294.
CY Australia
DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LA English
FS Priority Journals
EM 199901
ED Entered STN: 19990209
Last Updated on STN: 19990209
Entered Medline: 19990128

=> d 2

L5 ANSWER 2 OF 3 MEDLINE
AN 97407788 MEDLINE
DN 97407788 PubMed ID: 9264537
TI Peroxynitrite-mediated nitration of peptides: characterization of the products by electrospray and combined gas chromatography-mass spectrometry.
AU Yi D; Smythe G A; Blount B C; Duncan M W

CS Biomedical Mass Spectrometry Unit, University of New South Wales, Sydney, Australia.
SO ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, (1997 Aug 15) 344 (2) 253-9.
Journal code: 0372430. ISSN: 0003-9861.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals; AIDS
EM 199709
ED Entered STN: 19970922
Last Updated on STN: 19970922
Entered Medline: 19970908

=> d 3

L5 ANSWER 3 OF 3 MEDLINE DUPLICATE 2
AN 94311913 MEDLINE
DN 94311913 PubMed ID: 8037741
TI Isolation of endogenous **hemorphin**-related hemoglobin fragments from bovine brain.
AU Karelina A A; Philippova M M; Karelina E V; Ivanov V T
CS Shemyakin and Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, Moscow.
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1994 Jul 15) 202 (1) 410-5.
Journal code: 0372516. ISSN: 0006-291X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199408
ED Entered STN: 19940825
Last Updated on STN: 19940825
Entered Medline: 19940815

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